Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at http://about.jstor.org/participate-jstor/individuals/early-journal-content.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact support@jstor.org.

VOL. VII. PART V.

# THE ASSURANCE MAGAZINE,

AND

# JOURNAL

OF THE

# INSTITUTE OF ACTUARIES.

NO. XXXI.

APRIL, 1858.

LONDON:
CHARLES AND EDWIN LAYTON, 150, FLEET STREET.
EDINBURGH: KENNEDY. NEW YORK: H. BAILLIÈRE, 290, BROADWAY.
PARIS: J. B. BAILLIÈRE, LIBRAIRE, RUE HAUTEFEUILLE.
HAMBURG: PERTHES, BESSER, & MAUKE.

PRINTED BY C. & E. LAYTON, 150, FLEET STREET,
TO WHOM ALL COMMUNICATIONS FOR THE EDITOR SHOULD BE SENT, POST PAID.

*Price* 2*s.*

# INSTITUTE OF ACTUARIES.

## President.

JOHN FINLAISON (LATE GOVERNMENT ACTUARY).

## Vice-Presidents.

SAMUEL BROWN.
PETER HARDY, F.R.S.
WILLIAM BARWICK HODGE.
CHARLES JELLICOE.

## Treasurer.

JOHN LAURENCE.

## Council.

*ARTHUR HUTCHESON BAILEY.
*HUGH C. BAKER.
*SAMUEL BROWN.
*WILLIAM MEREDITH BROWNE.
*CHARLES JOHN BUNYON, M.A.
*DAVID CHISHOLM.
†FRANK ALLAN CURTIS.
†GEORGE CUTCLIFFE.
*ARCHIBALD DAY.
*THOMAS GOLDIE DICKSON.
*PERCY MATTHEW DOVE.
†WILLIAM EMMENS.
*GEORGE JOHN FARRANCE.
*EDWIN JAMES FARREN.
*JOHN FINLAISON.
*ALEXANDER GLEN FINLAISON.
*WILLIAM SUTTON GOVER.
*JOHN WILLIAM HAMPTON.
*PETER HARDY, F.R.S.
*WILLIAM BARWICK HODGE.
†GEORGE WILLIAM SAMUEL JAGO.
†WILLIAM MONTGOMERY JAMES.
*CHARLES JELLICOE.
*JENKIN JONES.
*JOHN KING.
†JOHN EDWARD CAMPBELL KOCH.
†SAMUEL LINN LAUNDY.
*JOHN LAURENCE.
*CHARLES LUCIUS LAWSON.
†EDWARD FREDERICK LEEKS.
†EDWIN LENDON.
*CHARLES TERRELL LEWIS.
†WILLIAM THOMAS LINFORD.
*JEREMIAH LODGE, B.A.
†ROBERT JOHN LODGE.
*JAMES MEIKLE.
*WILLIAM LEWIN NEWMAN.
†ARTHUR PEARSON.
*GEORGE HENRY PINCKARD.
*HENRY WILLIAM PORTER.
*WILLIAM RATRAY.
†RICHARD RAY.
*JOHN REDDISH.
*EBENEZER ERSKINE SCOTT.
*GEORGE SCOTT.
*EDWARD OSBORNE SMITH.
†FREDERICK GARLE SMITH.
*HENRY WILLIAM SMITH.
*WILLIAM SMITH.
*WILLIAM SPENS.
*THOMAS BOND SPRAGUE.
†GEORGE STEWART.
*JAMES MICHAEL TERRY.
*BENJAMIN HALL TODD.
*JOSEPH TODHUNTER.
*ROBERT TUCKER.
*THOMAS WALKER, B.A.
*JOHN WATSON.
*JOHN HILL WILLIAMS.
*CHARLES ARNOLD M. WILLICH.

## Honorary Secretaries.

JOHN REDDISH.
JOHN HILL WILLIAMS.

## Auditors.

CHRISTIAN CHILD.
JOHN BERRY HAYCRAFT.
CHARLES WATKINS.

## Assistant Secretary.

EDWARD TUDOR SCARGILL.

## Clerk.

FREDERICK WILLIAM HADDON.

* Fellows. † Official Associates.

[ENTERED AT STATIONERS' HALL.]

# THE ASSURANCE MAGAZINE, AND JOURNAL OF THE INSTITUTE OF ACTUARIES.

VOL. VII.—PART V.

APRIL, 1858.

LONDON:
CHARLES & EDWIN LAYTON, 150, FLEET STREET.
EDINBURGH: KENNEDY. NEW YORK: H. BAILLIÈRE, 290, BROADWAY.
PARIS: J. B. BAILLIÈRE, LIBRAIRE, RUE HAUTEFEUILLE.
HAMBURG: PERTHES, BESSER, & MAUKE.

[*The Council of the Institute of Actuaries of Great Britain and Ireland wish it to be understood, that while they consider it their duty to give, from time to time, publicity to certain of the papers presented to the Institute, they do not hold themselves responsible for the opinions put forward therein.*]

LONDON :
PRINTED BY CHARLES AND EDWIN LAYTON,
150 FLEET STREET.

# CONTENTS OF NO. XXXI.

PAGE

On the Investments of the Funds of Assurance Companies. By Samuel Brown, F.S.S., Actuary to the Guardian Assurance Company ..... 241

On the Principles which should govern Assurance Companies in Amalgamating. By Charles Jellicoe, Actuary to the Eagle Insurance Company ..... 254

On the Progress of Fire Insurance in Great Britain, as compared with other Countries. By Samuel Brown, F.S.S., Actuary to the Guardian Assurance Company 259

Annuities on Lives. By Charles M. Willich, Actuary to the University Life Assurance Society ..... 273

On the Mortality arising from Military Operations. By William Barwick Hodge, Fellow of the Statistical Society of London and of the Institute of Actuaries .. 275

A Sketch of the Life of Henry James Brooke, late Actuary to the London Life Association ..... 286

FOREIGN INTELLIGENCE:—

Germany:

The Progress and Position of Assurance Companies in Germany in the Year 1855. By Wilhelm Lazarus, of Hamburg. (Continued from p. 223).. 289

CORRESPONDENCE:—

On Mr. Younger's Paper as to the Method of Testing the Solvency of an Assurance Company, &c. ..... 294

On the Method of Testing the Solvency of an Assurance Company..... 295

On the Commutation Tables recently published by Mr. David Chisholm.... 297

Formula for an Approximate Value of Annuities at Simple Interest ..... 300

## NOTICE.

Communications for this *Journal* must be sent in at least one month prior to the day of publication, or their insertion will in all probability be deferred.